

Teaming with Sandia

a U.S. D.O.E Laboratory

by Dr. Gordon T. Leifeste



Doing Business with Sandia is REALLY VERY EASY

- Even though Sandia is affiliated with the US Government, we do business like other commercial entities
- Describe the process we go through in developing a commercial business arrangement
- There are two components that need to be explored at the start
 - The companies objectives
 - The companies expectations (schedule, cost, and intellectual property)
- All discussions can be arranged under a nondisclosure agreement (NDA)



Sandia's Business Principles

- Continue to support our DOE mission
- Partner with DOD and other federal agencies to apply our capabilities and technology to their missions
- Partner with industry to apply our capabilities and technology to real world problems
- Partner with industry to enhance the economic competitiveness of the US

Sandia's Business Principles (cont'd)

- Care deeply about the success of the industrial partner
- Full cost recovery for work performed
 - DOE requirement for 90 day advanced payment
- Flavor is that of company to company, not a procurement under the FARs





Objectives

- Begin by describing to Sandia, your company's objectives in a business area
- Examples
 - We want to develop chem-bio sensors
 - We want to advance our company's technology base in remote, autonomous, vehicles
 - We want to penetrate new markets using revolutionary technology
 - We want to reduce our manufacturing costs



Expectations

- Describe your expectations
- Examples
 - The work should be completed in 3 years
 - It has the following technical features
 - We want the cost/total price to be no more than \$ xxx
 - We need the intellectual property (IP) rights necessary to deploy solutions and products based on the IP to/on behalf of our customers

Using Standard Business Practices Will Move the Deal Forward

- High quality deals have the following components agreed to by both parties
 - what constitutes success
 - technical scope
 - schedule and milestones
 - cost
 - identification of funding sources and amounts

Move the Deal Forward (cont'd)

- special interim reporting requirements
- final report expectations
- identification of all contracts that must be in place
 - WFO, CRADA, license
- expectations of both parties on intellectual property rights

Mechanisms by Which We Can Work with Commercial Firms

- CRADA (Cooperative Research and Development Agreement)
 - both parties play major roles in the research and development
- Work for Others/Non-Federal Entities (WFO /NFE)
 - Sandia performs the work according to the scope and schedule
- User facility
- US Government direct funding



Technical Scope

- The technical scope should at least be in enough detail to:
 - break up the work into manageable pieces
 - describe each parties technical deliverables
 - describe the general theme on how to attack the problem
 - how is success to be determined





Schedule and Milestones

- The schedule and milestones should:
 - describe the overall completion date
 - allow breakpoints for go/no go decisions
 - break the work up into manageable pieces
 - allow progress to be determined
 - allow for contract closeout, including specialized reports, documentation, transferring systems, intellectual property issues
 - allow for any facility modifications





Funding Sources

- Please share with Sandia, early on, any information on "specialized funding sources"
 - internal company IR&D funds
 - special accounting issues
 - special calendar dates that impact funding
 - US Government funds targeted for special programs
 - contingencies based on product rollout and sales
 - foreign ownership
 - venture capital funding
 - barter



Licenses

- Sandia usually brings an extensive set of (pre-existing) background intellectual property into a business arrangement
 - All of the IP that Sandia may use in attacking a problem may not be known in advance
- Under a business arrangement, new intellectual property may be generated (foreground)



Licenses

- A license is used to convey the necessary rights to the foreground and background intellectual property necessary for the partner to attack a business opportunity and deliver commercial solutions to their customers
- Title to intellectual property developed under the arrangement can be waived to sponsor. This will be considered in the context of the entire business deal including necessary rights to pre-existing Sandia intellectual property



Licenses

- Commercial firm can negotiate rights, up to an exclusive license, on fair commercial terms to CRADA/NFE generated IP
- Depending on the business arrangement, the rights and licenses may require an up-front fee and running royalties



Why are IP Rights Not Free?

- Licensee is purchasing rights that are protected under patent and copyright law (the right to exclude others from manufacturing, using, or selling)
- The cost or protection is a real cost of doing business
- Royalties generated to the laboratory are reinvested in R&D and reward inventors and authors





- Embryonic or innovative IP require additional investment to commercialize
- Relative contributions and risk are taken into account when negotiating the ultimate value and royalties
- A "tool box" of techniques is used business and commercialization plans including, sources of financing, market analysis, and pro-forma statements

Standard Business Questions in Commercial Licensing

- Will the technology be used internally to a company or does the company want to make a product and then sell the product
- What is the replacement cost (not the Sandia investment cost) of the software
- Does the company want (need) an exclusive license
- What is the stage of development for the software
- Does the company want sublicensing rights

Standard Business Questions in Commercial Licensing (cont'd)

- Will installation assistance be offered
- Should there be a one time fee, running royalties, or an annual usage fee
- What is the lifetime of the software
- Will updates and version upgrades be offered

Commercial Scales of Justice for Valuing a Business Deal

• The scales can be tipped because of programmatic objectives (supplier development, economic development, strategic partnering)

